

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 October 2005 (20.10.2005)

PCT

(10) International Publication Number
WO 2005/097011 A1

(51) International Patent Classification⁷: **A61F 2/66**

(21) International Application Number:
PCT/US2005/011304

(22) International Filing Date: 1 April 2005 (01.04.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/814,260 1 April 2004 (01.04.2004) US
60/558,119 1 April 2004 (01.04.2004) US
10/814,155 1 April 2004 (01.04.2004) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 10/473,682 (CIP)
Filed on 29 March 2002 (29.03.2002)

(71) Applicants and

(72) Inventors: **TOWNSEND, Barry, W.** [US/US];
400 Houchin Road, Bakersfield, CA 93304 (US).
CLAUDINO, Byron, K. [US/US]; 9731 Rosedale High-
way, Bakersfield, CA 93312 (US).

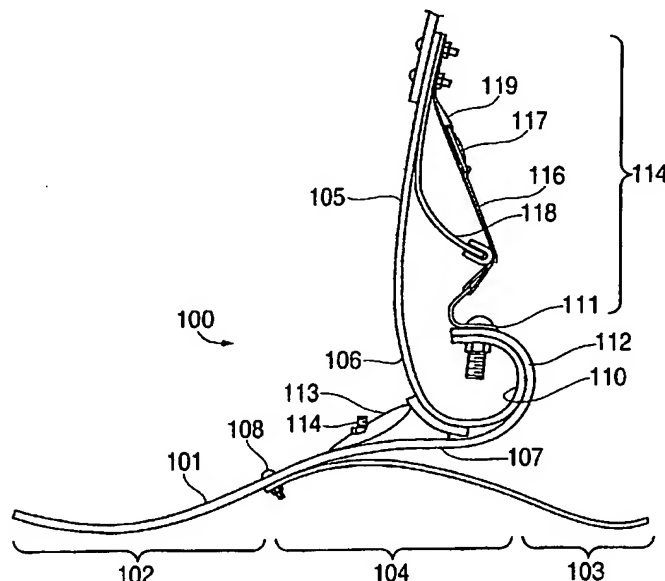
(74) Agent: **SHORE, Ronald, J.**; Antonelli, Terry, Stout &
Kraus, LLP, 1300 Seventeenth Street, North, Suite 1800,
Arlington, VA 22209 (US).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: PROSTHETIC FOOT WITH TUNABLE PERFORMANCE



(57) Abstract: A prosthetic foot (100) incorporates a foot keel (101) and a resilient calf shank (105) with its lower end connected to the foot keel to form an ankle joint of the prosthetic foot. The foot keel has forefoot and hindfoot portions and a midfoot portion extending between the forefoot and hindfoot portions. The calf shank extends upward from the foot keel by way of an anterior facing convexly curved portion (106) of the shank, and is secured to the foot keel by way of a coupling element (107) which is monolithically formed with the forefoot portion of the foot. The lower end of the shank is reversely curved (110) and housed by a reversely curved portion (112) of the coupling element.

WO 2005/097011 A1



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.